FORT Calhoun Station June 2001
Reviewer:
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APPENDIX E - REGION IV OPERATING TEST JOB PERFORMANCE MEASURE QUALITY REVIEW MATRIX

JPM#	1. Dyn (D/S)	2. LOD (1-5)	3. Attributes					4. Job Content Errors		5. U/E/S	6. Explanation (See below for instructions)
			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link	Minutia		
ROA1.1	S	2			2					S	
RO A1.2	S	2			2					S	
RO A2	S	1			2	N				u	This JPM is really a two-part question on logging requirements for failed components. Add another quetion or replace JPM.
RO A3	S	2			6	B				E	Need a complication/challenge to successful entry/exit. Simulate a job as an entry premise that requires additional planning/dress out, and the applicant is required to recognize and perform.
RO A4	S	1			2	N				U	This is essentially two e-plan related questions, one one escort responsibility, another on basic e-plan terminology. Too simple and non-descriminating as written.
SRO A1.1	S	2			3					S	Need units for RM-57 reading initiating Cue.
SRO A1.2	S	2			1					S	
SRO A2	S	2			1					S	
SRO A3	S	2			4					S	
SRO A4	S	3			2					S	
B.1.a	D	2			5					S	
B.1.b	S	2			5					S	Switch lineup. Steps 1e, 1i do not appear critical.
B.1.c	D	2			2	N				E	Continue the JPM to complete the operability test....is there an alternate procedure that can be used to verify operability given one SIRWT recirc valve is failed closed? As written, the task does not test an alternate path. Only one dynamic step... starting the pump.
B.1.d	D	2			3	N				E	Is 0.64 the expected value (it is in the procedure)... recommend changing the value to sometihing not exactly from the procedure, such as 0.69. Only one dynamic step, closing the PORV
B.1.e	D	2			3	N				E	What is time (failure) criteria for tripping the RCP? How was this JPM modified? Is the applicant expected to use the ARP, or trip the pump then check? Only dynamic step is tripping the RCP.
B.1.f	D	3			6					S	Normally done by the licensed operators, not I&C?
B.1.g	D	3			6					S	Step 13 does not appear critical. Failure criteria/ time to restart the sample pump? VIAS cue does not seem necessary... he should identify from simulator indications and report/react.

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			IC Focus	Cues	Critical Steps	Scope (N/B)	Over-lap	Job-Link	Minutia		
B.2.a	S	3			3	N				E	Consider completion of the entire Attachment... keep the first 3 steps as time critical, then continue \with the attachment, depending on a time validation for performing the remaining steps. As is, this is a simple switch lineup, unless challenged by completion time.
B.2.b	S	2			4					S	Lineup only
B.2.c	S	3			5					E	Consider adding the start of the FW-54 to the task, and carrying out the post lineup portion to completion... too narrowly focused as written.
SB.1.b	S	3			4					S	
SB.2.c	S	3			3					S	

APPENDIX F - REGION IV OPERATING TEST QUESTION QUALITY REVIEW MATRIX													
Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Errors					4. Job Content Errors				5. U/E/S	6. Explanation (See below for instructions)
			Stem Focus	Direct L/U	One Ans	Min Resp	Scope (TS?)	Job-Link	Minu-tia	SRO Only	Back-wards		
A1.1S													
A1.2S													
A4.1R													
A4.2R													

APPENDIX F - REGION IV OPERATING TEST QUESTION QUALITY REVIEW MATRIX													
Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Errors					4. Job Content Errors				5. U/E/S	6. Explanation (See below for instructions)
			Stem Focus	Direct L/U	One Ans	Min Resp	Scope (TS?)	Job-Link	Minu-tia	SRO Only	Back-wards		

Instructions for Completing Matrix (Complete for either all items or all items requiring comment):

1. Classify level of knowledge (LOK) as either (F)undamental or (H)igher cognitive level.
2. Determine level of difficulty (LOD) using established 1-5 rating scale. Levels 1 and 5 represent inappropriate (low or high) discriminatory level for the license being tested.
3. Check the appropriate box when a psychometric error is identified:
   - Stem lacks sufficient focus to solicit only the answers listed (e.g., unclear on intent, answer needed, or unnecessarily negatively phrased)
   - Direct lookup (e.g., desired answer contained in obvious reference),
   - Question does NOT solicit single demonstrably correct answer,
   - Minimum response for passing credit NOT described in key,
   - Scope of question outside guidance of NUREG (e.g., why not how, TS bases not system, emergency not emergency plan),
4. Check the appropriate box when a job content error is identified:
   - Topics not linked to job content (e.g., disguised task, not required in real job, invalid K/A).
   - Recall of too specific knowledge,
   - RO test items test at the SRO job level or vice versa,
   - Reverse logic or application compared to job.
5. Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
6. Provide a brief description of problem in the explanation column.

Operating Test Review Comments

Job Performance Measures

In general, tasks are not challenging and do not require manipulation of the system to control a variable parameter. Only one task, the filling of the EFWST, requires system dynamic feedback for control of the system and completion of the task. Additionally, alternate path task do not in general allow completion of the task via a different method or procedural guidance. Component start, something malfunction, secure component can be a viable alternate path task, depending on the complexity of the decision to not continue operating the component.

Dynamic Scenarios

Generally Acceptable as is. During validation on site, establish time-line expectations and failure criteria where not apparent.

Scenario 1...

Note typo in event 3 line 4 of operator actions... should be T-hot vice T-cold.

Scenario 2...
Potential repeat of Raw Water system manipulation as in Part B tasks. Also, instrument failure requires same corrective action as in Scenario 1, bypassing trip units 1, 9, and 12 in the affected channel. This may be acceptable, evaluate at prep.
Scenario 3...
Event 6 is not a valid Instument failure, since it does not require operator action to mitigate. This was a planned failure for the secondary operator, and the currenet schedule calls for this operator to be an SRO(I) applicant in the BOP position, where he is not required to evaluated for any number of malfunctions. Discuss value of adding/replacing with another component failure during prep.

Instructions for Completing Matrix (Complete for either all items or all items requiring comment):

1. Determine whether the task is dynamic (D) or static (S). A dynamic task is one that involves continuous monitoring and response to varying parameters. A static task is basically an system reconfiguration or realignment.
2. Determine level of difficulty (LOD) using established 1-5 rating scale. Levels 1 and 5 represent inappropriate (low or high) discriminatory level for the license being tested.
3. Check the appropriate box when an attribute weakness is identified:
   - The initiating cue is not sufficiently clear to ensure the operator understands the task and how to begin.
   - The JPM does not contain sufficient cues that are objective (not leading).
   - All critical steps (elements) have not been properly identified.
   - Scope of the task is either too narrow (N) or too broad (B).
   - Excessive overlap with other part of operating test or written examination.
4. Check the appropriate box when a job content error is identified:
   - Topics not linked to job content (e.g., disguised task, not required in real job).
   - Task is trivial and without safety significance.
5. Based on the reviewer's judgment, is the JPM as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
6. Provide a brief description of problem in the explanation column.